BRUHAT BANGALORE MAHANAGARA PALIKE

EXCECUTIVE ENGINEER DASARAHALLI PROJECT DIVISION

Name of work: Modified Estimate for Special Development Works At Mallasandra Colony School in Mallasandra Ward No. 13

JOB NUMBER.: | SI-11 | Est. Amount = | 50.00 Lakhs

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications, specification. No. KBS 2.1 (a)/2.3.1(l.tm No.2.1, P.No.5, SR:2016 17)								
	Govt School								
	For Footing Front Side	Cum	5	1.50	1.50	1.50	16.88		
	Over burden earth						210.00		
							Total Modified Qty 226.88		
							As per Schedule-B 1829.32		
							Qty Up to 125% 226.88	200.00	45375.00
2	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m.after breaking of clods complete as per specifications,specification. No. KBS 2.1(b)/2:3.5 (l.tm No.2.4, P.No.5, SR:2016-17)								
							Total Modified Qty 0.00		
							As per Schedule-B 155.74		
							Qty Up to 125% 0.00	200.00	0.00
3	KSRB 2.14-1: Extra for additional lift of 1.5m. or part thereof for excavation In loose / soft or hard rock including cost of materials, labour complete as per specifications, specification. No. KBS (l.tm No.2.22, P.No.7, SR:2016-17)								
	Govt School								
	For Footing Front Side	Cum	5	1.50	1.50	1.50	16.88		
							Total Modified Qty 16.88		
							As per Schedule-B 59.44		
							Qty Up to 125% 16.88	300.00	5062.50
	KSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier underand around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS : 3.2.6 / 3.2.7 (l.tm No.3.2, P.No.9, SR:2016-17)								
	Govt School								
	For Footing Front Side	Sqm	5	1.50	1.50		11.25		
							Total Modified Qty 11.25		
							As per Schedule-B 80.09		
							Qty Up to 125% 11.25	160.00	1800.00
	KSRB 2.8 : Providing and Filling in foundation with granite / trap cum broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead upto 50m.and lift of 1.5m,complete as per specifications, (PWP,IWTD) SR Bangalore Circle 2014. specification. No. KBS (l. No.-2.15. P. No.-06, SR:2016-17)								
	Govt School								
	For Footing Front Side	Cum	5	1.50	1.50	0.20	2.25		
							Total Modified Qty 2.25		
							As per Schedule-B 4.61		
							Qty Up to 125% 2.25	2000.00	4500.00
	KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS .1, 4.2 (l.tm No.4.2, P.No.12, SR:2016-17)								
	ovt School								
	ooting Foundation								
	r Footing Front Side	Cum	5	1.50	1.50	0.15	1.69		
							Total Modified Qty 1.69		
							As per Schedule-B 37.62		
							Qty Up to 125% 1.69	6500.00	10968.75

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Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (l.tm No.5.6, P.No.23, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	7.41		
					Qty Up to 125%	0.00	5000.00	0.00
KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13) (l.tm No.5.9, P.No.23, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	2.56		
					Qty Up to 125%	0.00	5500.00	0.00
KSRB 4.2.1: Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excludingcost of reinforcement as per specifications.Specification No. KBS Specification No. KBS 4.1,4.64.1,4.6(l.tm No.4.10, P.No.13, SR:2016-17)								
Govt School								
Mallasandra Colony School								
For Footing Front Side	Cum	5	1.00	1.00	0.60	3.00		
Pedestail		5	0.60	0.60	0.60	1.08		
Lintel Concrete		2	7.40	0.23	0.15	0.51		
		1	5.25	0.23	0.15	0.18		
Roof beam		2	7.40	0.23	0.30	1.02		
		2	6.25	0.23	0.30	0.86		
Slab		1	10.25	8.50	0.15	13.07		
		1	10.40	8.80	0.15	13.73		
Deduct Head room		-1	5.15	2.60	0.15	-2.01		
Staircase								
For waist slab		2	3.30	1.00	0.15	0.99		
		2	3.30	1.00	0.15	0.99		
Landing		2	2.15	1.45	0.15	0.94		
Treads		19	1.00	0.30	0.15	0.86		
Raise		21	1.00	0.30	0.15	0.95		
					Total Modified Qty	36.16		
					As per Schedule-B	28.41		
					Qty Up to 125%	36.16	6500.00	235033.01
KSRB 2.3: Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9 (l.tm No.2.10, P.No.6, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	85.16		
					Qty Up to 125%	0.00	90.00	0.00
SRB 2.5 : Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 0cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all bour complete as per specifications, specification. No. KBS 2.9.9/2.9.10.1/2.1.1 (l.tm No.2.12, P.No.6, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	13.76		
					Qty Up to 125%	0.00	350.00	0.00
RB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 0kgs, with 20mm cum and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 7cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in ers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams aining walls, return walls, walls (any thickness) including attached pilasters, columns, Unties, pillars, posts, struts, tresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fiHets Etc., uding cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per cifications, specification No. KBS 4.t, 4.6 (l.tm No.4.12, P.No.13, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	19.41		
					Qty Up to 125%	0.00	6500.00	0.00

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Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
KSRRB M1100-5. Driven Vertical Steel Piles as per Drawing and & Technical Specification complete as per specifications. Section of the pile =H Section steel column 400 x 250 mm (ISHB Series) MORTH Specification No.1100 & 1900 (I. No.- 25.16, P.No.- 199, SR: 2016-17)								
Mallasandra Colony School								
For Coloumns		5	2.90			14.50		
					Total Modified Qty	14.50		
					As per Schedule-B	75.00		
					Qty Up to 125%	14.50	3500.00	50750.00
KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (l.tm No.4.19, P.No.14, SR:2016-17)								
Mallasandra Colony School								
For Chajja Front Side								
For Windows		1	7.40	0.60		4.44		
		2	1.20	0.60		1.44		
					Total Modified Qty	5.88		
					As per Schedule-B	2.50		
					Qty Up to 125%	3.13	6500.00	20312.50
					Qty Above 125%	2.76	6500.00	17907.50
Providing RCC loft (atta) 7.5cms thick with cement concrete design sqm mix M20 using clean granite or trap jeiiy of 20mm and down size with necessary reinforcements at 20cms centre to centre as per design including form work, centring, curing, etc., complete (exclusive of cost of steel and fabrication charges). (l.tm No.4.54, P.No.19, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	0.62		
					Qty Up to 125%	0.00	900.00	0.00
KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded cum granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, nciuding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (l.tm No.4.6, P.No.12, SR:2016-17)								
For Cill Concrete								
For Windows	Cum	3	0.90	0.23	0.10	0.06		
					Total Modified Qty	0.06		
					As per Schedule-B	0.08		
					Qty Up to 125%	0.06	6500.00	403.65
KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (l.tm No.4.28, P.No.15, SR:2016-17)								
Mallasandra Colony School								
For Footing Front Side	Sqm							
		5	3.00	0.60		9.00		
					Total Modified Qty	9.00		
					As per Schedule-B	81.44		
					Qty Up to 125%	9.00	350.00	3150.00
KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, Sqm. propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (l.tm No.4.32, P.No.16, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	18.00		
					Qty Up to 125%	0.00	350.00	0.00
KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.up to 3.50m from Ground level. Specification No. KBS 4.6.2 (l.tm No.4.18, P.No.15, SR:2016-17)								
Mallasandra Colony School								
Lintel Concrete	Sqm	4	7.40		0.15	4.44		
		2	5.25		0.15	1.58		
Roof beam		4	7.40		0.30	8.88		
		4	6.25		0.30	7.50		
Slab		1	10.25	8.50		87.13		
		1	10.40	8.80		91.52		
Deduct Head room		-1	5.15	2.60		-13.39		
Staircase								
Flights		4	3.30	1.00		13.20		
Raise		21	1.00	0.15		3.15		
For Side		2	3.30	0.30		1.98		
For Landing		2	2.15	1.45		6.24		

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Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
					Total Modified Qty	212.22		
					As per Schedule-B	170.38		
					Qty Up to 125%	212.22	300.00	63,664.50
SRB 4-6.9 Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in oor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (I.tm No.4.36, No.16, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	10.99		
					Qty Up to 125%	0.00	300.00	0.00
SRB 4-6.10 Providing and removing centering, shuttering, strutting, Sqm propping etc., for chajjas, corbels etc., cluding edges including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (I.tm o.4.37, P.No.16, SR:2016-17)								
or Chajja Front Side	Sqm	1	7.40	0.60		4.44		
or Windows		2	1.20	0.60		1.44		
					Total Modified Qty	5.88		
					As per Schedule-B	17.13		
					Qty Up to 125%	5.88	300.00	1,764.00
SRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, lacing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining embers wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost f materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT bars Fe 500 tm No.4.46.2, P.No.17, SR:2016-17)								
					Total Modified Qty	4.34		
					As per Schedule-B	6.37		
					Qty Up to 125%	4.34	65000.00	282100.00
SRB 6-2.3 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard ze of class designation S.ONewton per sqmm (table moulded) with cement mortar 1:6 for basement and uperstructu/re including cost of materials, labour charges, scaffolding, curing complete as per specifications. pecification No. KBS 6.2 (Item No.6.6, Page No.27, SR: 2016-17)								
REF!	Cum							
ornt side corridor		1	7.40	0.23	0.90	1.53		
alls		2	7.40	0.23	3.00	10.21		
		1	6.25	0.23	3.00	4.31		
lintel beam fornt side		1	6.25	0.23	0.65	0.93		
st side		1	9.75	0.23	0.65	1.46		
ad room		1	3.65	0.23	0.65	0.55		
		2	4.75	0.23	2.35	5.13		
		1	2.70	0.23	2.50	1.55		
ick pillars		1	2.70	0.23	2.50	1.55		
ddel		3	0.40	0.25	2.10	0.63		
r case portion		1	1.95	0.23	0.65	0.29		
		1	2.35	0.23	1.00	0.54		
ductions Doors						28.70		
		1	0.90	0.23	2.20	0.46		
windows		1	0.90	0.23	2.10	0.43		
f beam		3	0.90	0.23	1.25	0.78		
		2	7.40	0.23	0.30	1.02		
lintel beam		1	6.25	0.23	0.30	0.43		
		2	7.40	0.23	0.15	0.51		
		1	6.25	0.23	0.15	0.22		
						3.85		
					Total Modified Qty	24.85		
					As per Schedule-B	42.94		
					Qty Up to 125%	24.85	6500.00	161529.7
B 9.4-4 - do - White Sal wood frames of doors, windows, clerestory windows, ventilators and other frames, ght, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), cluding cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 No.9.1.13, P.No.51, SR:2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	0.71		
					Qty Up to 125%	0.00	75000.00	0.0
9-13-1: Providing and fixing in position shutters for doors made out of Honne wood styles and rails of 40mm. with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 18mm thick erior grade Melamine impregnated prelamination particle board of approved colour on both sides including cost of ials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. 9.34, 9.26.4 (I.tm No.9.34, P.No.53, SR:2016-17)								

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Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
					Total Modified Qty	13.44		
					As per Schedule-B	1829.32		
					Qty Up to 125%	13.44	4000.00	53,760.00
SRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding hutters using double track window frame section of size 61.85x31.75mm, with 1.2mm thick, bottom section weight 695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of ze 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, utter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with proved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain ass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred bdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and ed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raui plugs, or teak wood tties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium ctions pretreated for removal of any Specification No. KBS using aluminium section powdered coated to a minimum 60-70 microns with exterior durable pure polyester grade powder of approved quality. (I.tm No.7.10.2, P.No.33, :2016-17)								
					Total Modified Qty	0.00		
					As per Schedule-B	1829.32		
					Qty Up to 125%	0.00	4000.00	0.00
RB 7.9 : Providing and **fixing M.S.grill work** for windows and Kgs ventilators using M.S. flats, or M.S. square rods, combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and ding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of chinery complete as per specifications. Specification No. KBS 7.12 (I.tm No.7.9, P.No.32, SR:2016-17)								
dows W								
l Qty in kgs (qty in Sqm *21 kg/sqm)		1	20.95	3.15		65.99		
		2	7.90	3.45		54.51		
		1	1.45	2.45		3.55		
						0.00		
		1	3.60	1.05		3.78		
		1	2.10	1.05		2.21		
	Kgs	1	3.45	1.05		3.62		
		1	3.38	1.05		3.55		
		1	3.43	1.05		3.60		
		1	3.45	1.05		3.62		
		1	3.15	1.05		3.31		
						147.74		
		1	1.20		2.10	2.52		
		1	0.90		2.10	1.89		
						4.41		
						143.33		
					Total Qty 143.33@21k.g/Sqm			
					Total Modified Qty	3009.99		
					As per Schedule-B	141.00		
					Qty Up to 125%	176.25	190.00	33487.50
					Qty Above 125%	2833.74	190.00	538411.17
15-3.10 : **Providing 20mm thick cement plaster** in single coat with cement mortar 1:4, to stone masonry & te surface including rounding off corners wherever required smooth rendering, including providing and removing ding, cost of materials, labour, curing etc., complete as per specification. (I.tm No.15.19, P.No.114, SR:2016-17)								
de								
protion		1	7.40		0.90	6.66		
ide wall		1	7.40		0.90	6.66		
stair case		1	7.40		3.30	24.42		
		1	5.70		3.00	17.10		
Room		2	7.40		0.60	8.88		
		4	1.20		0.60	2.88		
		2	4.75		2.35	22.33		
ions		1	2.70		2.20	5.94		
dows		1	2.70		2.50	6.75		
						101.62		
		2	0.90		1.25	2.25		
		1	0.90		2.20	1.98		
						4.23		
					Total Modified Qty	97.39		
					As per Schedule-B	284.34		
					Qty Up to 125%	97.39	170.00	16555.45

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Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
KSRB15-3.7 : Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to brick masonry including rounding off corners wherever required smooth rendering,: Providing and removing scaffolding, including cost of materials, labour, curing complete as per specification (I.tm No.15.16, P.No.114, SR:2016-17)								
Inside		3	7.40	3.00		66.60		
		2	6.25	3.00		37.50		
		1	9.65	0.65		6.27		
		1	9.65	0.90		8.69		
		1	2.35	1.00		2.35		
		1	3.65	0.90		3.29		
		1	1.95	0.90		1.76		
oof Beam		1	6.25	0.83		5.19		
air case Portion		1	2.15	3.00		6.45		
ead Room		2	4.52	2.35		21.24		
air case Portion Tread		2	2.70	2.35		12.69		
es		21	1.00	0.30		6.30		
nding		22	1.00	0.15		3.30		
ductions		1	2.15	1.30		2.80		
windows						184.41		
r		3	0.90	1.25		3.38		
		1	0.90	2.20		1.98		
		1	0.90	2.20		1.98		
						7.34		
					Total Modified Qty	177.08		
					As per Schedule-B	225.19		
					Qty Up to 125%	177.08	170.00	30103.43
B 15-3-13 : Providing **12mm thick cement piaster** in single coat with cement mortar 1:3, to ceiling including ding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of rials, labour, curing etc., complete as per specification. (I.tm No.15.21, P.No.114, SR:2016-17)								
g	Sqm	1	7.40	6.25		46.25		
dor		1	9.65	1.97		19.01		
		1	3.50	2.25		7.88		
					Total Modified Qty	73.14		
					As per Schedule-B	107.73		
					Qty Up to 125%	73.14	170.00	12433.04
ling and laying flooring using prepolished, water cut/gang saw 19mm thick granite laid with a bed of 20mm thick n & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on d surface and cleaning the surface, including the cost of all materials, mortar and labours etc., complete as per cationsusing silver grey granite / Multy Red / Ruby Red I Black / Hassan SqmGreen Granite of width not less 200mm (I.tm No.14.47.1, P.No.107, SR:2016-17)								
rting	Sqm	1	7.40	6.25		46.25		
		2	6.25	0.15		1.88		
ircase		2	7.40	0.15		2.22		
		21	1.00	0.30		6.30		
		22	1.00	0.15		3.30		
		2	2.15	1.45		6.24		
Front Side		4	3.30	0.15		1.98		
		1	31.80	0.60		19.08		
		1	30.95	0.93		28.78		
		1	30.90	0.93		28.74		
		1	31.50	0.95		29.93		
		1	31.80	0.95		30.21		
		1	32.25	0.95		30.64		
		1	32.25	0.95		30.64		
		15	1.90	0.75		21.38		
		1	1.90	0.28		0.53		
		17	1.90	0.15		4.85		
ns		1				292.92		
		1	0.90	0.15		0.14		
ront Side		1	1.90	0.60		1.14		
		6	1.90	0.93		10.60		
						11.88		
					Total Modified Qty	281.05		
					As per Schedule-B	49.99		
					Qty Up to 125%	62.49	2500.00	156218.75
					Qty Up to 125%	218.56	2500.00	546395.00

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Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
KSRB 14.10-2: Flooring with 20 mm thick polished shahabad slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. Specification No. KBS (I. No.- 14.16, P. No.- 103)								
Proposed Truss Area	Sqm	1	22.70	7.38		167.53		
					Total Modified Qty	167.53		
					As per Schedule-B	173.02		
					Qty Up to 125%	167.53	800.00	134020.80
Fabrication supplying and erecting M.S. tubular trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick t| base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification. (I.tm No.7.29, P.No.40, SR:2016-17)								
						Constrant	Qty	
oof	Kgs							
0mm SHSTabular Top & Bottom		2*5	7.50			14.20	1065.00	
mm SHS Cross bracing		5*15	1.00			9.22	691.50	
0mm SHS Perline		1*14	25.08			13.91	4883.11	
ites		5*2	0.30	0.15	0.012	7850.00	42.39	
aring Plates		1*9	0.45	0.30	0.012	7850.00	127.17	
& Bolts Lump Sum			1350.00				1350.00	
							8159.17	
					Total Modified Qty	8026.31		
					As per Schedule-B	8159.17		
					Qty Up to 125%	8026.31	150.00	1203946.50
viding and installing of pre **painted Galvolume iron T**rapezoidal profiled sheet of approved make 1060 mm width 0 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm er ASTM 1397/A755-550mpa steel grade, 5-7 microns. (I.tm No.38.30, P.No.300, SR:2016-17)								
Area	Sqm	1	21.50	8.00		172.00		
					Total Modified Qty	172.00		
					As per Schedule-B	175.52		
					Qty Up to 125%	172.00	1700.00	292400.00
URS								
Handles to full width 2m long	Each	2				2.00	150.00	300.00
Hinges 5" heavy duty		20				20.00	150.00	3,000.00
Tower bolt 300 mm long		16				16.00	30.00	480.00
ling Screws		25				25.00	3.24	81.00
Locking arrangements		2				2.00	702.00	1,404.00
ling and fixing **M.S. Hand railing** for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, d to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervalsof 600mm. These l rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using sion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections be cut to length, weided and grinded wherever necessary etc., complete . The work includes cost of ail materials, charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, mplete as per specification and drawing.(P.No-42 ,I No-7.35 of KPWD S.R 2016-17)								
ilings First Floor	Sqm							
se		1	3.25		0.90	2.93		
		1	0.25		0.90	0.23		
		1	3.55		0.90	3.20		
Floor								
		1	3.30		0.90	2.97		
		1	0.25		0.90	0.23		
		1	3.30		0.90	2.97		
					Total Modified Qty	12.51		
					As per Schedule-B	26.54		
					Qty Up to 125%	12.51	3200.00	40,032.00

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Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
Old Building								
Ground floor ROOM-1	Sqm	1	3.50	2.25		7.88		
						0.00		
Ground floor ROOM-2		2	4.05	3.00		24.30		
Ground floor ROOM-3		2	1.90	3.00		11.40		
Ground floor ROOM-4		2	7.40	3.00		44.40		
STAIR ROOM		2	6.20	3.00		37.20		
Be side Building		2	7.40	3.00		44.40		
First floor ROOM-1		2	6.20	3.00		37.20		
First floor ROOM-2		2	7.40	3.00		44.40		
First floor ROOM-3		2	6.20	3.00		37.20		
For Ceiling		2	6.43	3.00		38.58		
Ground floor ROOM-1		1	2.15	3.00		6.45		
Ground floor ROOM-2		2	4.32	3.00		25.92		
Ground floor ROOM-3		2	8.90	3.00		53.40		
Ground floor ROOM-4		2	4.05	3.00		24.30		
Be side Building		2	1.90	3.00		11.40		
		2	7.40	3.00		44.40		
Deductions		2	6.20	3.00		37.20		
door Ground Floor		2	7.40	3.00		44.40		
Windows						0.00		
door First Floor		1	4.05	1.90		7.70		
Windows		1	7.40	6.20		45.88		
or windows		1	7.40	6.20		45.88		
door		1	7.40	6.20		45.88		
		1	4.32	8.90		38.45		
Be side Building						1007.88		
loor								
Windows		4	0.90	2.10		7.56		
		9	0.90	1.20		9.72		
		3	0.90	2.10		5.67		
		6	0.90	1.20		6.48		
		3	0.90	1.25		3.38		
		1	0.90	2.20		1.98		
		1	0.90	2.20		1.98		
		1	0.90	2.10		1.89		
		2	0.90	1.20		2.16		
						40.82		
					Total Modified Qty	967.07		
					As per Schedule-B	332.91		
					Qty Up to 125%	416.14	150.00	62,420.63
					Qty Above 125%	550.93	150.00	82,639.50

Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges (Item No.15.105, Page No.125, SR: 2016-17)

Sqm	Total Modified Qty	0.00		
	As per Schedule-B	284.34		
	Qty Up to 125%	0.00	140.00	0.0

SRB 15-17.5: Applying priming coat over new wood surface and / or wood based surface after preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting liquid wood filler, for varnish including cost of materials, labour, complete as per specifications. (P.No- 119,It. No-15.95 of KPWD S.R 2016-17)

Total Modified Qty	0.00		
As per Schedule-B	11.20		
Qty Up to 125%	0.00	60.00	0

SRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials,labour, complete as per specifications.(P.No-119 ,I No-15.60.1 of KPWD S.R 2016-17)

Total Modified Qty	0.00		
As per Schedule-B	11.24		
Qty Up to 125%	0.00	60.00	

SRB 15-17.8 : Extra over Item No. 15-17.6 for applying every subsequent coat of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering includingcost of materials, labour, complete as per specifications. (Item No.15.60.2, Page No.119, SR: 2016-17)

Consultants

Bruhat Bangalore Mahan

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Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
				Total Modified Qty		0.00		
				As per Schedule-B		1829.32		
				Qty Up to 125%		0.00	60.00	0.00
KSRB 15-17.12: Providing and applying polishing with french polish on new wood surface and / or wood based surface to give an even surface after cleaning the surface of all dirt, dust and foreign matter, sand papered smooth, including cost of wood filler and materials, labour, complete as per specifications.(P.No-120 ,I No-15.64.1 of KPWD S.R 2016-17)								
	Sqm			Total Modified Qty		0.00		
				As per Schedule-B		11.40		
				Qty Up to 125%		0.00	120.00	0.00
KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per pecifications.								
0								
Fornt side Ground Floor		1	20.95	3.15		65.99		
		2	7.90	3.45		54.51		
		1	1.45	2.45		3.55		
						0.00		
First Floor								
East Side		1	3.60	1.05		3.78		
south side		1	2.10	1.05		2.21		
		1	3.45	1.05		3.62		
	Sqm	1	3.38	1.05		3.55		
		1	3.43	1.05		3.60		
		1	3.45	1.05		3.62		
		1	3.15	1.05		3.31		
Door		1	0.90	2.10		1.89		
Window		1	0.90	1.20		1.08		
						150.71		
		Total Qty 150.71 X 2.25						
				Total Modified Qty		339.10		
				As per Schedule-B		97.50		
				Qty Up to 125%		121.88	60.00	7,312.50
				Qty Above 125%		217.23	60.00	13,033.76
KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.								
0								
Doors		9	0.90		2.10	17.01		
for windows		20	0.90		1.20	21.60		
Fornt side Grouund Floor		1	20.95	3.15		65.99		
		2	7.90	3.45		54.51		
		1	1.45	2.45		3.55		
						0.00		
First Floor								
East Side		1	3.60	1.05		3.78		
south side	Sqm	1	2.10	1.05		2.21		
		1	3.45	1.05		3.62		
		1	3.38	1.05		3.55		
		1	3.43	1.05		3.60		
		1	3.45	1.05		3.62		
		1	3.15	1.05		3.31		
						186.35		
		Total Qty 150.71 X 2.25						
				Total Modified Qty		419.294		
				As per Schedule-B		97.50		
				Qty Up to 125%		121.88	80.00	9,750.00
				Qty Above 125%		297.42	80.00	23,793.54
Electricals Work for School Building								
Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.19/20mm dia 2mm thick(P.No-2 ,I No-1.2.1 of PWD S.R 2014-15)								
PVC conduit pipe 9/20mm	Rmt	1	40.0			40.00	60.0	2,400.

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Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
16Amps 3way 5 pin Socket (I No-3.7.10 of PWD S.R 2014-15)		1	2.0			2.00	100.0	200.00
32Amps Flush/projected types DP switch (I No-3.7.9 of PWD S.R 2014-15)		1	2.0			2.00	100.0	200.00
Supplying and flush mounting powder coated metal / galvanised metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall (15/3.5)(I No-3.5of PWD S.R 2014-15)								
1-3Way(I No-3.5.1of PWD S.R 2014-15)	Each	1	2			2.00	80.00	160.00
4-5Way (I No-3.5.2of PWD S.R 2014-15)		1	2			2.00	90.00	180.00
6Way (I No-3.5.3of PWD S.R 2014-15)		1	2			2.00	90.00	180.00
8Way (I No-3.5.4of PWD S.R 2014-15)		1	2			2.00	100.00	200.00
10-12Way (I No-3.5.5of PWD S.R 2014-15)		1	2			2.00	110.00	220.00
16Way (I No-3.5.6of PWD S.R 2014-15)		1	1			1.00	120.00	120.00
Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.(15/16/3.6) (I No-3.6of PWD S.R 2014-15)								
1 to 3 Module (I No-3.6.1of PWD S.R 2014-15)	Each	1	10			10.00	100.00	1,000.00
4Moudule (I No-3.6.2 of PWD S.R 2014-15)		1	4			4.00	110.00	440.00
6Moudule (I No-3.6.3 of PWD S.R 2014-15)		1	4			4.00	120.00	480.00
8Moudule (I No-3.6.4 of PWD S.R 2014-15)		1	2			2.00	130.00	260.00
10Moudule (I No-3.6.5 of PWD S.R 2014-15)		1	2			2.00	130.00	260.00
12Moudule (I No-3.6.6 of PWD S.R 2014-15)		1	3			3.00	150.00	450.00
Supplying and fixing PVC/metal conduit accessories.(2/1.5)(I No-1.5of PWD S.R 2014-15)								
deep junction box								
19/20mm junction box(I No-1.5.1of PWD S.R 2014-15)	Each	1	50			50.00	60.00	3,000.00
Supplying and fixing of class A (medium duty)GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arraingements for UG cable of 1.1KV class.40mm(I No-7.1 of PWD S.R 2014-15)								
GI pipe	Rmt	1	25			25.00	60.00	1,500.00
Spplying, fixing ,wiring, earth electrode for grounding conduits, I C cutouts and other equipments on the meter board using 40mm dia 2.9mm thick GI pipe 2.5 mtr long buried in a pit... the pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connectionh from the pipe to the conduit etc, is to be established through GI wire of size as per ISI Specification 7.3.3. of IS 732 using 12mm dia bolts, nuts,wahers anfd check nuts etc,the pipe shall have 16 through hole of 122 mm dia(68/1)(I No-7.22.3 of PWD S.R 2014-15)								
wiring	Nos	1	2			2.00	2500.00	5,000.00
Suppling and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps,nails,guttas/spacers. GI Wire c) 8SWG(I No-81of PWD S.R 2014-15)								
GI/Copper conductor	Rmt	1	30			30.00	150.00	4,500.00
Supplying tinned copper lugs crimping and wiring to terminal point for wire of the following sizes.2.5sqmm.(Page No. 70, I No-7.21.8of PWD S.R 2014-15)								
copper lugs crimping	Nos	1	5			5.00	400.00	2,000.00
Supplying tinned copper lugs crimping and wiring to terminal point for wire of the following sizes.-35Sqmm Long Barrel(PageNo. 66, I No-12of PWD S.R 2014-15)								
copper lugs crimping	Nos	1	4			4.00	220.00	880.00
Supplying surface mounted type mirror optic luminaries for single/Twin 28watts fluorescent lamps cross rising of stove enameled deep coloured M.S.low profile housing complete with all accessories and high purity anodized aluminum reflector assembling along with cross louvers including necessary fluorescent tubes with Energy Saving Electronic Ballast. (21/4.9)(I No-4.9of PWD S.R 2014-15)								
2x4'-28 Watts Group 'A'(I No-4.9.3 of PWD S.R 2014-15)	Each	0	3			0.00	900.00	0.00
x4'-28 Watts roup 'A'(I No-4.9.1 of PWD S.R 2014-15)		0	3			0.00	1000.00	0.00

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Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
Supply box type suitable for 20W T5 single/twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holder & main connectores. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enamelled whith end caps made of engineering plastic. (20/4.7)(I No-4. 7 of PWD S.R 2014-15)								
1x4'-28 Watts(I No-4.7.1 of PWD S.R 2014-15)	Each					0.00	1000.00	0.00
Supplying CFL mirror light fitting with 2x11W CFL lamp, choke, Perspex cover and completely wired for use on 230V 50Hz AC (25/4.25)(I No-4.23 of PWD S.R 2014-15)								
Group 'A'(I No-4.23.1 of PWD S.R 2014-15)	Each					0.00	1000.00	0.00
KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles of size 30x30cms 6mm thick. (P.No.106, I.No. 14.36.2 of PWD SR 2015-16)								
Mallasandra Colony School								
Corridor Ground Floor		1	20.9	2.15		44.94		
Corridor First Floor		1	1.8	2.15		3.87		
		1	20.9	2.15		44.94		
		1	1.8	2.15		3.87		
						97.61	1285.70	125497.18
KSRB 7.3 : **Providing and fixing 1mm thick M.S. sheet garage door** with frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. Double leaf door of size 2.4x2.4m. Specification No. KBS 7.9 / 7.12.								
Mallasandra Colony School								
Door		1	0.90		2.10	1.89		
						1.89	2549.54	4,818.63
KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
Mallasandra Colony School								
Out side								
Crridor protion		1	7.40		0.90	6.66		
Back side wall		1	7.40		0.90	6.66		
R/S of stair case		1	7.40		3.30	24.42		
Chejja		1	5.70		3.00	17.10		
		2	7.40		0.60	8.88		
Head Room		4	1.20		0.60	2.88		
		2	4.75		2.35	22.33		
		1	2.70		2.20	5.94		
		1	2.70		2.50	6.75		
Old Building								
South Side		1	4.50		6.30	28.35		
		2	20.90		0.90	37.62		
		1	20.90		3.00	62.70		
		2	20.90		0.90	37.62		
West side		1	7.80		6.30	49.14		
East Side		1	7.80		6.30	49.14		
North Side		1	25.40		6.30	160.02		
Be side Buidlding		1	4.78		3.60	17.21		
		1	9.35		3.60	33.66		
		1	9.35		2.00	18.70		
						595.77		
Deductions								
for windows		2	0.90		1.25	2.25		
door		1	0.90		2.20	1.98		
Old Building						0.00		
Ground Floor Doors		4	0.90		2.10	7.56		
windows		9	0.90		1.20	9.72		
First Floor Doors		3	0.90		2.10	5.67		
Windows		6	0.90		2.10	11.34		
Be Side Building Doors		1	0.90		2.10	1.89		
Windows		2	0.90		1.20	2.16		
						42.57		
						553.20	75.44	41,733.63

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Detailed Estimate

Sl.	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification.								
	Mallasandra Colony School								
	For Gate								
			1	1.20		2.10	2.52		
			1	0.90		2.10	1.89		
							4.41	3207.70	14,145.96
							Total Constrution cost		4,569,938.69
							Micellaneous and Rounding off		2,532.84
							Grand Total		4,572,471.53

Certificate:-
1. The work spot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.

Assistant Engineer
Dasarahalli Project Division
BBMP - Bangalore

Assistant Executive Engineer
Dasarahalli Project Division
BBMP - Bangalore

Executive Engineer
Dasarahalli Project Division
BBMP - Bangalore

ನಂ. CE/D2/T5/16/18-19 ದಿನಾಂಕ : 21/01/2019
ರೂ. 45.72 Lakhs/- (Rs Forty Five Lakhs Seventy Two Thousand only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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